

SPRINT 3

PYTHON CODE

TEAM ID	PNT2022TMID14587
PROJECT TITLE	Real-Time River Water Quality Monitoring and Controlling System
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PYTHON CODE

#importing Random function to generate the value import random as rand for i in range(5):

print("Test case:",i+1)

print("Welcome to Real-Time River Water Quality Monitoring and Control System") temperature = int(rand.randint(-40,125)) pH = int(rand.randint(0,14)) DO = int(rand.randint(0,100))

TSS = int(rand.randint(0,3700))

Manganese = int(rand.randint(0,1000)) Copper = int(rand.randint(0,2000))

ammonia_Nitrate = int(rand.randint(0,100))

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Hardness = int(rand.randint(0,1000))
Zinc = int(rand.randint(0,100))
Conductivity = f"{float(rand.uniform(0.001,2000)):.2f}"
Chloride = int(rand.randint(0,200))
Sulphate = int(rand.randint(0,1000))

#These variables store value of ramdom data to be shared to the
cloud

#printing the values    print(
    "Temperature:", temperature,
    "\npH:", pH,
    "\nDO:", DO,
    "\nTSS:", TSS,
    "\nManganese:", Manganese,
    "\nCopper:", Copper,
    "\nAmmonia & Nitrate:", ammonia_Nitrate,
    "\nHardness:", Hardness,
    "\nZinc:", Zinc,
    "\nConductivity:", Conductivity,
    "\nChloride:", Chloride,
    "\nSulphate:", Sulphate, "\n"
)
```